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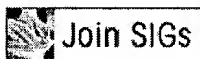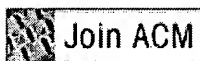Optimization (TACO)
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1 The future of programming   ■
Anthony I. Wasserman, Steven Gutz
March 1982 **Communications of the ACM**, Volume 25 Issue 3

Full text available: 🗎 pdf(1.29 MB)   Additional Information: full citation, abstract, references, citings, index terms

The nature of programming is changing. These changes will accelerate as improved software development practices and more sophisticated development tools and environments are produced. This paper surveys the most likely changes in the programming task and in the nature of software over the short term, the medium term, and the long term. In the short term, the focus is on gains in programmer productivity through improved tools and integrated development environments. In the medium ...

Keywords: integrated development environments, personal development systems, prototyping, software components, software development methodology

2 Harnessing technology for effective inter- and intra-institutional collaboration (report of   ☐ the ITiCSE '97 working group on supporting inter- and intra institutional collaboration)
Douglas Siviter, Marian Petre, Bruce Klein
June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings**
Full text available: 🗎 pdf(145.01 KB)   Additional Information: full citation, references, citings, index terms

3 Harnessing technology for effective inter- and intra-institutional collaboration: report of   ☐ the ITiCSE '97 working group on supporting inter- and intra-institutional collaboration
Douglas Siviter, Marian Petre, Bruce Klein
October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Full text available: 🗎 pdf(2.66 MB)   Additional Information: full citation, abstract, references, index terms

The computer science discipline is well poised to provide leading examples of harnessing communications and computer technologies in order to encourage collaborative practices both within and between institutions. Students, academics, and institutions all potentially have access to their counterparts world-wide. This provides endless opportunities for sharing knowledge, accessing scarce expertise, making effective re-use of limited resources,

collaborating to attract funding and influence polici ...

4 The development of cooperation: five years of participatory design in the virtual school ▭
John M. Carroll, George Chin, Mary Beth Rosson, Dennis C. Neale
August 2000 **Proceedings of the conference on Designing interactive systems:
processes, practices, methods, and techniques**

Full text available: 📄 pdf(335.98 KB)   Additional Information: full citation, abstract, references, citings, index terms

During the past five years, our research group worked with a group of public school teachers to define, develop, and assess network-based support for collaborative learning in middle school physical science and high school physics. From the outset, we committed to a participatory design approach. This design collaboration has now existed far longer than is typical of participatory design endeavors, particularly in North America. The nature of our interactions, and in particular the nature o ...

Keywords: cognitive development, cooperative design, educational networks, participatory design, requirements development, requirements engineering, school culture

5 A retrospective on the development of Star ▭
Eric Harslem, LeRoy E. Nelson
September 1982 **Proceedings of the 6th international conference on Software
engineering**

Full text available: 📄 pdf(747.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

Star, officially known as the Xerox 8010 Information System, is a workstation for professionals, providing a comprehensive set of capabilities for the office environment. The Star software consists of just over 250,000 lines of code. Its development required 93 work years over a 3.5 year period. The development of Star depended heavily on the use of powerful personal computers connected to a local-area network and on the use of the Mesa language ...

6 Computer currency ▭
Neal S. Coulter, Fred G. Harold
August 1978 **ACM SIGCSE Bulletin , Proceedings of the ninth SIGCSE technical
symposium on Computer science education**, Volume 10 Issue 3
Full text available: 📄 pdf(417.10 KB)   Additional Information: full citation, abstract, index terms

The notion of continuing education is nowhere more relevant than in the computer context. The fact that many top managers completed their formal education before computer topics were a part of most university curricula, coupled with the elemental changes that have transformed our industry for even those computer specialists who completed their education a few years ago, make continuing education for "computer currency" a very real need. A continual passing from hand t ...

7 The future of programming—whither APL? ▭
John R. Searle
June 1984 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference
on APL**, Volume 14 Issue 4

Full text available: 📄 pdf(576.58 KB)   Additional Information: full citation, abstract, references, citings, index terms

Changes in the computing industry can be expected to maintain their spectacular growth rate of recent years. The implications of these changes for programming languages, and on the techniques required by computer software professionals, are briefly discussed. In

particular, the role of APL in this changing environment is analysed, with the intention of identifying some deficiencies in the current status of the language. Possible modifications are then suggested, in order to develop APL into ...

8 Local microcomputer networks and their impact on computer science education
Hayden S. Porter
April 1982 **Proceedings of the 20th annual Southeast regional conference**

Full text available: pdf(368.70 KB)   Additional Information: full citation, abstract, references

Advances in computer science and semiconductor technology have combined to create what now generally is recognized as the computer revolution. Three features of this revolution are examined as to their impact on computer science education: 1) the reduction of the cost threshold to gain access to computation, 2) the avaliability of dedicated processors for real-time computation, and 3) the existence of local computer networks in which the nodes are stand-alone microcomputers that share informatio ...

9 An Integrated Productivity, Training, and Performance Planning/Appraisal Framework
Robert A. Rouse
January 1979 **Proceedings of the 1979 annual conference**

Full text available: pdf(123.77 KB)   Additional Information: full citation, abstract, index terms

Improving the productivity of computer personnel requires an integrated view of the factors which promote effective and efficient work. Motivation, training, performance planning and productivity are so closely interrelated that to attack them individually results in initiatives which often conflict with one another and lead to confusion of ends by professional personnel. Successful integration of these factors results in a management style and organizational form that supports the accompli ...

10 A workbench for project oriented software engineering courses
Leslie J. Waguespack, David F. Hass
January 1984 **ACM SIGCSE Bulletin , Proceedings of the fifteenth SIGCSE technical symposium on Computer science education**, Volume 16 Issue 1

Full text available: pdf(802.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present the Computer Science Scholar's Workbench, a tool kit written in Pascal suitable for research and teaching. It has advantages over contemporary workbenches, UNIX and INTERLISP: a host to support the tool kit costs less than $3,000, the tools are free-available in source from publications, and the tools are written in Pascal which is widely used in academic environments. We discuss a) course requirements and problems unique to project oriented software engineering classes, b ...

11 Creative personnel management for User Services
Lois J. Secrist
November 1982 **Proceedings of the 10th annual ACM SIGUCCS conference on User services**

Full text available: pdf(279.33 KB)   Additional Information: full citation, abstract, references, index terms

How do you manage creative professionals in an academic computing environment? Believe me—creatively! Enabling User Services staff to develop skills, abilities and confidence in a rapid-fire manner in often stressful situations requires creativity. As I share with you some of what I have learned as a User Services Manager over the past decade, I will confine my comments to personnel management—but creativity applies equally well to goal-setting, budgeting of resources, and other ...

12
On enhancing the interface to the source code of computer programs

Ronald Baecker, Aaron Marcus
December 1983 **Proceedings of the SIGCHI conference on Human Factors in Computing Systems**

Full text available: pdf(485.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper addresses issues in the human factors of computer program documentation. We develop a framework for research on enhancing the interface to the source code of computer programs through designing and automating the production of effective typeset representations of the source text. Principles underlying the design research and examples of sample production are presented. This work was supported by the U.S. Defense Advanced Research Projects Ag ...

13 The unique stresses of user services
S. Stager
October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**

Full text available: pdf(600.41 KB)   Additional Information: full citation, abstract, index terms

Ever wonder why staff from other units of your computer center aren't madly trying to obtain positions in your User Services unit? Or why the turnover rate in your User Services unit is so high? The obvious answer is working in User Services is highly stressful and no one in their right mind chooses to work in a stressful environment. If talented, sane individuals momentarily take leave of their senses and accept positions in the User Services unit, they quickly begin applying fo ...

14 Correlation Between Control Systems: and Labor Force in Technology Companies
Andrea Herrera, Olga L. Giraldo
December 2002 **ACM SIGCAS Computers and Society**, Volume 32 Issue 4

Full text available: htm(158.17 KB)   Additional Information: full citation, index terms

15 Increase organizational effectiveness: Support self-managed IS development teams
J. T. Nosek
May 1988 **Proceedings of the ACM SIGCPR conference on Management of information systems personnel**

Full text available: pdf(951.11 KB)   Additional Information: full citation, abstract, references, index terms

This paper focuses on the choices in organizational design — specifically, on the choices in structure, reward systems, and people to support the information and decision processes employed in accomplishing organizational tasks. Forces in the changing IS development environment plus characteristics of IS personnel greatly influence organizational design requirements. The self-managed IS development team emerges as an appealing organizational design to meet these requirements. Changes ...

16 Book reviews: Tools for change and progress
Andrew Bartlett
September 1996 **ACM SIGCAS Computers and Society**, Volume 26 Issue 3

Full text available: pdf(188.83 KB)   Additional Information: full citation

17 Book reviews: City of bits: space, place and the infobahn
Joe Podolsky
September 1996 **ACM SIGCAS Computers and Society**, Volume 26 Issue 3

Full text available: 📄 pdf(222.29 KB)   Additional Information: <u>full citation</u>

18 <u>Enhancing program readability and comprehensibility with tools for program visualization</u>
R. Baecker
April 1988 **Proceedings of the 10th international conference on Software engineering**

Full text available: 📄 <u>pdf(1.12 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In order to make computer programs more comprehensible, the presentation of program source text, program documentation, and program execution needs to be enhanced over its conventional treatment. The paper describes a number of new techniques and tools developed to achieve these ends. One of these is a novel design for the effective presentation of source text in the C programming language using high quality digital typography, and a processor which implements the design. Some experimental ...

19 <u>A view from the entry level: student perceptions of critical information systems job attributes</u>
Tim Goles
April 2001 **Proceedings of the 2001 ACM SIGCPR conference on Computer personnel research**
Full text available: 📄 <u>pdf(581.79 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Globalization and the expanding digital nature of today's business environment have resulted in skyrocketing demand for qualified IT personnel. Organizations are increasingly turning to recently graduated IS students as a critical source of supply. In light of this, the objective of this paper is to identify the relative importance of job attributes considered by IS students when evaluating a job. Drawing on content motivation as a general theoretical foundation, this paper surveyed 243 IS st ...

Keywords: IT labor shortages, IT workforce, job attributes, recruiting strategies, recruitment

20 <u>A framework for understanding the computer applications system development process</u>
Mike Bozonie
September 1986 **ACM SIGCSE Bulletin**, Volume 18 Issue 3
Full text available: 📄 <u>pdf(360.50 KB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

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1 A view from the entry level: student perceptions of critical information systems job attributes   ▰
Tim Goles
April 2001 **Proceedings of the 2001 ACM SIGCPR conference on Computer personnel research**
Full text available: 🔁 pdf(581.79 KB)   Additional Information: full citation, abstract, references, index terms

Globalization and the expanding digital nature of today's business environment have resulted in skyrocketing demand for qualified IT personnel. Organizations are increasingly turning to recently graduated IS students as a critical source of supply. In light of this, the objective of this paper is to identify the relative importance of job attributes considered by IS students when evaluating a job. Drawing on content motivation as a general theoretical foundation, this paper surveyed 243 IS st ...

Keywords: IT labor shortages, IT workforce, job attributes, recruiting strategies, recruitment

2 Document ranking on weight-partitioned signature files   ▰
Dik Kun Lee, Liming Ren
April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2
Full text available: 🔁 pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A signature file organization, called the weight-partitioned signature file, for supporting document ranking is proposed. It employs multiple signature files, each of which corresponds to one term frequency, to represent terms with different term frequencies. Words with the same term frequency in a document are grouped together and hashed into the signature file corresponding to that term frequency. This eliminates the need to record the term frequency explicitly for each word. We investiga ...

Keywords: access method, document retrieval, information retrieval, signature file, superimposed coding, text retrieval

3 General applications: Simulation practice: key enablers in the development of simulation   ▰
Stephen P. Murphy, Terrence D. Perera

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: 🔲 pdf(216.93 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The awareness of simulation technologies within the UK is relatively small when compared with the USA. Subsequently several large US companies have been able to overcome the difficulties in adopting new technology into their business and introduce simulation. This paper investigates the problems encountered and the practices helping to successfully implement simulation into a company environment. Details of a major survey conducted to determine the approaches taken by large automotive and aerosp ...

4 <u>Technical papers: component technologies: Component rank: relative significance rank</u> 🔳
<u>for software component search</u>
Katsuro Inoue, Reishi Yokomori, Hikaru Fujiwara, Tetsuo Yamamoto, Makoto Matsushita, Shinji Kusumoto
May 2003 **Proceedings of the 25th international conference on Software engineering**

Full text available: 🔲 pdf(884.54 KB)
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Collections of already developed programs are important resources for efficient development of reliable software systems. In this paper, we propose a novel method of ranking software components, called *Component Rank*, based on analyzing actual use relations among the components and propagating the significance through the use relations. We have developed a component-rank computation system, and applied it to various Java programs. The result is promising such that non-specific and generic ...

5 <u>Term position ranking: some new test results</u>   🔳
E. Michael Keen
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 🔲 pdf(954.90 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Presents seven sets of laboratory results testing variables in term position ranking which produce a phrase effect by weighting the distance between proximate terms. Results of the 73 tests conducted by this project are included, covering variant term position algorithms, sentence boundaries, stopword counting, every pairs testing, field selection, and combinations of algorithm including collection frequency, record frequency and searcher weighted. The discussion includes the results of tes ...

6 <u>A document retrieval model based on term frequency ranks</u>   🔳
Ijsbrand Jan Aalbersberg
August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 🔲 pdf(951.78 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

7 <u>A user-centred evaluation of ranking algorithms for interactive query expansion</u>   🔳
Efthimis N. Efthimiadis
July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 🔲 pdf(1.10 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The evaluation of 6 ranking algorithms for the ranking of terms for query expansion is discussed within the context of an investigation of interactive query expansion and relevance feedback in a real operational environment. The yardstick for the evaluation was

provided by the user relevance judgements on the lists of the candidate terms for query expansion. The evaluation focuses on the similarities in the performance of the different algorithms and how the algorithms with similar performa ...

8 Poster papers: Item selection by "hub-authority" profit ranking

Ke Wang, Ming-Yen Thomas Su

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(1.08 MB)   Additional Information: full citation, abstract, references, index terms

A fundamental problem in business and other applications is ranking items with respect to some notion of profit based on historical transactions. The difficulty is that the profit of one item not only comes from its own sales, but also from its influence on the sales of other items, i.e., the "cross-selling effect". In this paper, we draw an analogy between this influence and the mutual reinforcement of hub/authority web pages. Based on this analogy, we present a novel approach to the item ranki ...

9 An experimental study of factors important in document ranking

Donna Williamson Harman

September 1986 **Proceedings of the 9th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 📄 pdf(809.20 KB)   Additional Information: full citation, abstract, references, citings

The ability to effectively rank retrieved documents in order of their probable relevance to a query is a critical factor in statistically-based keyword retrieval systems. This paper summarizes a set of experiments with different methods of term weighting for documents, using measures of term importance within an entire document collection, term importance within a given document, and document length. It is shown that significant improvements over no term weighting can be made using a combin ...

10 XML retrieval: Configurable indexing and ranking for XML information retrieval

Shaorong Liu, Qinghua Zou, Wesley W. Chu

July 2004 **Proceedings of the 27th annual international conference on Research and development in information retrieval**

Full text available: 📄 pdf(362.38 KB)   Additional Information: full citation, abstract, references, index terms

Indexing and ranking are two key factors for efficient and effective XML information retrieval. Inappropriate indexing may result in false negatives and false positives, and improper ranking may lead to low precisions. In this paper, we propose a configurable XML information retrieval system, in which users can configure appropriate index types for XML tags and text contents. Based on users' index configurations, the system transforms XML structures into a compact tree representation, Ctree, and ...

Keywords: XML indexing, XML information retrieval, XML ranking, ranking

11 Implementing ranking strategies using text signatures

W. Bruce Croft, Pasquale Savino

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Full text available: 📄 pdf(1.59 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Signature files provide an efficient access method for text in documents, but retrieval is usually limited to finding documents that contain a specified Boolean pattern of words. Effective retrieval requires that documents with similar meanings be found through a process of plausible inference. The simplest way of implementing this retrieval process is to rank documents in order of their probability of relevance. In this paper techniques are

described for implementing probabilistic ranking ...

12 Probabilistic search team weighting—some negative results
N. Fuhr, P. Muller
November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(465.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

The effect of probabilistic search term weighting on the improvement of retrieval quality has been demonstrated in various experiments described in the literature. In this paper, we investigate the feasibility of this method for boolean retrieval with terms from a prescribed indexing vocabulary. This is a quite different test setting in comparison to other experiments where linear retrieval with free text terms was used. The experimental results show that in our case no improvement over a s ...

13 Improving retrieval feedback with multiple term-ranking function combination
Claudio Carpineto, Giovanni Romano, Vittorio Giannini
July 2002   **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 3

Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract, references, index terms

In this article we consider methods for automatic query expansion from top retrieved documents (i.e., retrieval feedback) that make use of various functions for scoring expansion terms within Rocchio's classical reweighting scheme. An analytical comparison shows that the retrieval performance of methods based on distinct term-scoring functions is comparable on the whole query set but differs considerably on single queries, consistent with the fact that the ordered sets of expansion terms suggest ...

Keywords: automatic query expansion, information retrieval, method combination, retrieval feedback, short queries

14 A performance evaluation of similarity measures, document term weighting schemes and representations in a Boolean environment
Terry Noreault, Michael McGill, Matthew B. Koll
June 1980 **Proceedings of the 3rd annual ACM conference on Research and development in information retrieval**
Full text available: pdf(581.27 KB)   Additional Information: full citation, references, citings

15 Automatic combination of multiple ranked retrieval systems
Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew
August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(834.64 KB)   Additional Information: full citation, references, citings, index terms

16 Optimum polynomial retrieval functions based on the probability ranking principle
Norbert Fuhr
July 1989   **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3

Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We show that any approach to developing optimum retrieval functions is based on two kinds

of assumptions: first, a certain form of representation for documents and requests, and second, additional simplifying assumptions that predefine the type of the retrieval function. Then we describe an approach for the development of optimum polynomial retrieval functions: request-document pairs (fl, dm) are mapped onto descrip ...

17 Algorithms and applications for answering ranked queries using ranked views
Vagelis Hristidis, Yannis Papakonstantinou
January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 13 Issue 1
Full text available: pdf(478.90 KB)   Additional Information: full citation, abstract, index terms

Ranked queries return the top objects of a database according to a preference function. We present and evaluate (experimentally and theoretically) a core algorithm that answers ranked queries in an efficient pipelined manner using materialized ranked views. We use and extend the core algorithm in the described PREFER and MERGE systems. PREFER precomputes a set of materialized views that provide guaranteed query performance. We present an algorithm that selects a near optimal set of views under s ...

Keywords: Materialization, Merge ranked views, Ranked queries

18 Special issue on Machine learning methods for text and images: A family of additive online algorithms for category ranking
Koby Crammer, Yoram Singer
March 2003 **The Journal of Machine Learning Research**, Volume 3
Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, index terms

We describe a new family of topic-ranking algorithms for multi-labeled documents. The motivation for the algorithms stem from recent advances in online learning algorithms. The algorithms are simple to implement and are also time and memory efficient. We provide a unified analysis of the family of algorithms in the mistake bound model. We then discuss experiments with the proposed family of topic-ranking algorithms on the Reuters-21578 corpus and the new corpus released by Reuters in 2000. On bo ...

19 Ranking suspected answers to natural language questions using predictive annotation
Dragomir R. Radev, John Prager, Valerie Samn
April 2000 **Proceedings of the sixth conference on Applied natural language processing**
Full text available: pdf(642.88 KB)
                      Additional Information: full citation, abstract, references
               Publisher Site

In this paper, we describe a system to rank suspected answers to natural language questions. We process both corpus and query using a new technique, predictive annotation, which augments phrases in texts with labels anticipating their being targets of certain kinds of questions. Given a natural language question, our IR system returns a set of matching passages, which we then rank using a linear function of seven predictor variables. We provide an evaluation of the techniques based on results fr ...

20 Information retrieval models: The role of variance in term weighting for probabilistic information retrieval
Warren R. Greiff, William T. Morgan, Jay M. Ponte
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: pdf(329.25 KB)   Additional Information: full citation, abstract, references, index terms

In probabilistic approaches to information retrieval, the occurrence of a query term in a document contributes to the probability that the document will be judged relevant. It is

typically assumed that the weight assigned to a query term should be based on the expected value of that contribution. In this paper we show that the degree to which observable document features such as term frequencies are expected to *vary* is also important. By means of stochastic simulation, we show that increa ...

Keywords: latent variables, log-linear models, parameter estimation, term weighting, variance

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